Earthquake Shaking **Green Alert**

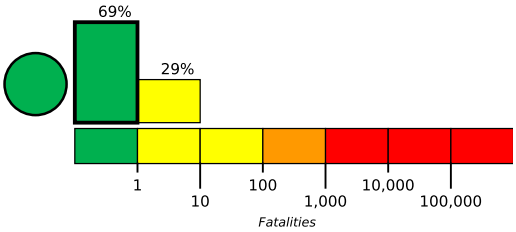
M 4.2, 19km SE of Pioche, Nevada

Origin Time: 2019-06-30 23:43:36 UTC (Sun 16:43:36 local)
Location: 37.7874° N 114.3137° W Depth: 3.1 km

PAGER Version 5

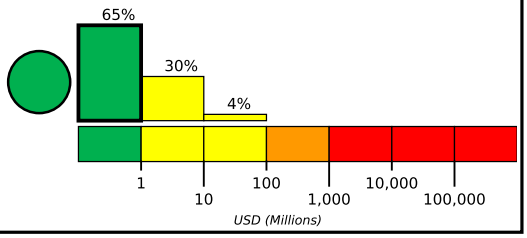
Created: 33 minutes, 53 seconds after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

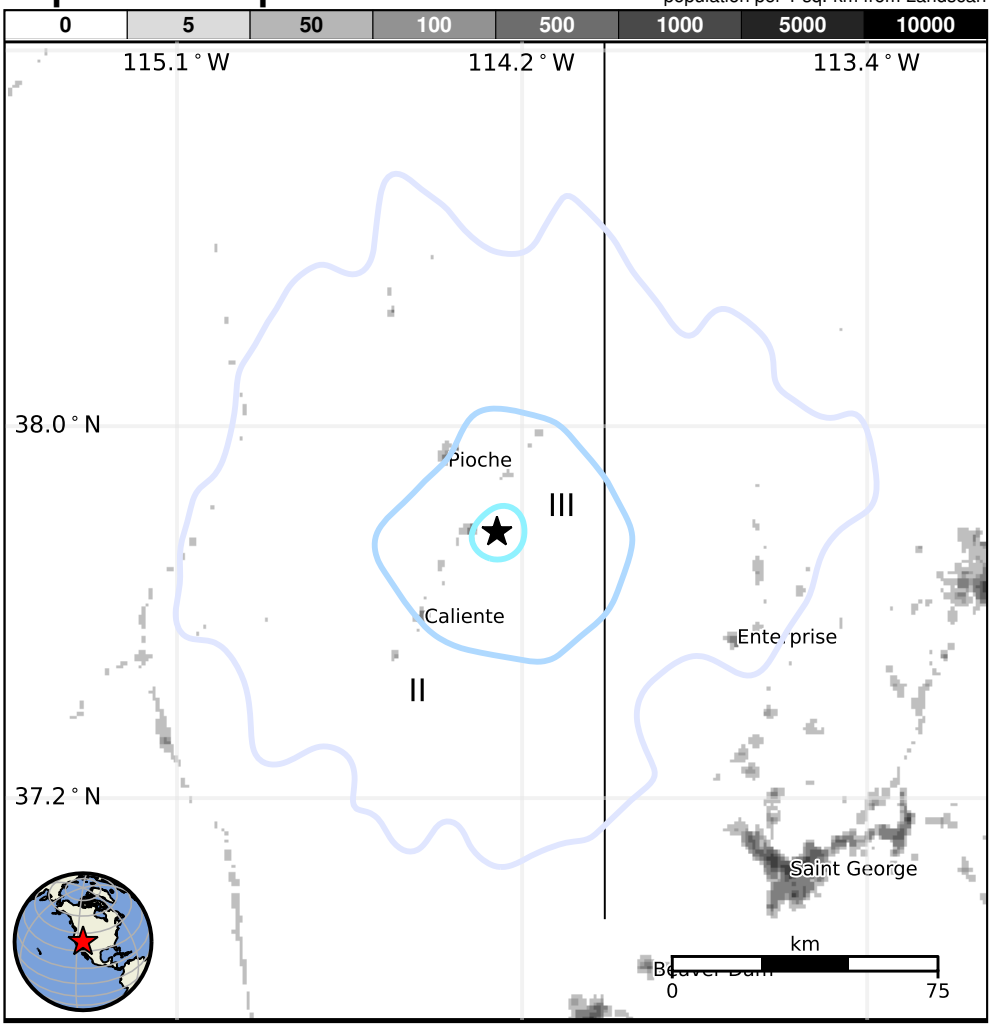


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		194k	6k	1k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		**I**	**II-III**	**IV**	**V**	**VI**	**VII**	**VIII**	**IX**	**X+**
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	**Resistant Structures**	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1984-11-26	395	5.1	V(17k)	0
1980-05-27	396	5.9	VI(68k)	0
1980-05-25	398	6.2	VII(6k)	0

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	**Caliente**	**1k**
II	**Pioche**	**1k**
II	**Enterprise**	**2k**
I	Ivins	7k
I	Alamo	1k
I	Mesquite	15k
I	**Saint George**	**73k**
I	Washington	19k
I	Hurricane	14k
I	Santa Clara	6k
I	LaVerkin	4k

bold cities appear on map. (k=x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

https://earthquake.usgs.gov/earthquakes/eventpage/nn00688850#pager

Event ID: nn00688850